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ELECTRONIC DEVICE WITH FORCE SENSING KEY

ABSTRACT OF THE DISCLOSURE

An electronic device with a force sensing key (200) has a switch (280), a first force
sensing region (290) for acquiring a first force value, a second force sensing region
(290) for acquiring a second force value, and a processor for determining a selected
function for the key (200) based upon the first force value and the second force
value when the switch (280) is activated. The first force sensing pad (290) and the
second force sensing pad (290) use a partially resistive material (250) that exhibits
a force-to-voltage response value. By forming the switch (280) as a dome (225)
switch, the force sensing key (200) provides crisp tactile feedback to a user. The
force sensing key (200) can be configured for a variety of applications and user
preferences by varying the architecture of the actuator (270).